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NOTICE OF ALLOWANCE AND FEE(S) DUE

45722 7590 03/30/2012

Howard IP Law Group P.O. Box 226 Fort Washington, PA 19034 EXAMINER HUGHES, KEVIN G

ART UNIT PAPER NUMBER

2193

DATE MAILED: 03/30/2012

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/587_366
 05/28/2008
 Guy Georges Aubin
 BEAUMONT-38
 8435

TITLE OF INVENTION: HIGH-RATE RANDOM BITSTREAM GENERATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1740	\$300	\$0	\$2040	07/02/2012

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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IL PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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45722 03/30/2012

Howard IP Law Group P.O. Box 226

Fort Washington, PA 19034

APPLN. TYPE

Authorized Signature

Typed or printed name

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Feeds (Tansmitted is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (5/11) 273-22885, on the date indicated below.

(Depositor's name (Signatur Date

TOTAL FEE(S) DUE

DATE DUE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/587,366	05/28/2008	Guy Georges Aubin	BEAUMONT-38	8435	
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PUBLICATION FEE DUE PREV. PAID ISSUE FEE

ISSUE FEE DUE

SMALL ENTITY

nonprovisional	NO	\$1740	\$300	\$0	\$2040	07/02/2012	
EXAMIN	NER	ART UNIT	CLASS-SUBCLASS				
HUGHES, K	HUGHES, KEVIN G 2193		708-250000				
. Change of correspondence address or indication of "Fee Address" (37 FR 1363). Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached. Tee Address "indication for Fee Address" indication form PTOSB/8/17, Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.		a 2	1	
	ss an assignee is ident in 37 CFR 3.11. Comp NEE	ified below, no assignee eletion of this form is NO	(B) RESIDENCE: (CITY	tent. If an assignee is ideassignment. and STATE OR COUNTR Individual	(Y)		
4a. The following fee(s) ar Issue Fee Publication Fee (No	e submitted:	4t	o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car	se first reapply any previo	ously paid issue fee sted. guired fee(s), any de	shown above)	
5. Change in Entity Statu a. Applicant claims			b. Applicant is no long	ger claiming SMALL ENTI	TY status. See 37 CE	R 1.27(g)(2).	
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if req cords of the United Sta	ired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a registered att	torney or agent; or th	e assignee or other party	

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for rectucing this burden, should be sent to the Chief Information Officer. U.S. Patest and Trademark Officer. U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 2231-450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 2231-450.

Date

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/587.366 05/28/2008 Guy Georges Aubin BEAUMONT-38 8435 45722 7590 03/30/2012 Howard IP Law Group HUGHES, KEVIN G P.O. Box 226 ART UNIT Fort Washington, PA 19034

> 2193 DATE MAILED: 03/30/2012

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 515 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 515 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom
 of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of
 records may be disclosed to the Department of Justice to determine whether disclosure of these
 records is required by the Freedom of Information Act.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2004 and 2006. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Application No. Applicant(s) 10/587.366 AUBIN, GUY GEORGES Notice of Allowability Examiner Art Unit KEVING HUGHES 2193 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTQL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308. This communication is responsive to 3/21/2012. 2. An election was made by the applicant in response to a restriction requirement set forth during the interview on the restriction requirement and election have been incorporated into this action. 3. The allowed claim(s) is/are 5-9. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) Some* c) None of the:

International Bureau (PCT Rule 17.2(a)). * Certified copies not received:

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the

- 5.

 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

Certified copies of the priority documents have been received.

(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

2. Certified copies of the priority documents have been received in Application No.

- 1) Thereto or 2) to Paper No./Mail Date
- (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)	
 Notice of References Cited (PTO-892) 	Notice of Informal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendment/Comment
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. X Examiner's Statement of Reasons for Allowance
•	9. Other

/Lewis A Bullock, Jr./ Supervisory Patent Examiner, Art Unit 2193 Application/Control Number: 10/587,366

Art Unit: 2193

Allowable Subject Matter

Claims 5-9 allowed.

The following is an examiner's statement of reasons for allowance: The present claims recite a circuit for accelerating an initial pseudo-random bit flow having a length of 2n-1 bits generated from a polynomial of an irreducible degree n at a first frequency. into an identical accelerated bit flow at a second frequency greater than the first clock frequency, the circuit comprising a combiner having a first input adapted to receive the initial bit flow and having an output adapted to provide the accelerated flow, a second input of the combiner being connected by a delay element to the combiner output, the delay "c of the delay element respecting the following relation: $t=((2^l)^*T_1)-T_0$, wherein T1 represents the clock period of the input bit flow, TO represents the clock period of the output bit flow, and t is a non-zero integer setting a decimation parameter, wherein delay t is also selected to respect the following relation: $t=(2k+1)^*(2^n-1)^*T_0$, where k represents any non-zero integer, and where n represents the degree of the irreducible polynomial of the random sequence. The closest prior art, US 3,881,099, discloses combining a flow of bits and a delayed flow of bits to generate an output at an accelerated flow rate compared to the input, however fails to disclose the delay element and decimation parameters as described by $t=((2^{l})^{*}T_{1})-T_{0}$, wherein T1 represents the clock period of the input bit flow, TO represents the clock period of the output bit flow, and t is a non-zero integer setting a decimation parameter, wherein delay t is also selected to respect the following relation: $t=(2k+1)^{k}(2^{n}-1)^{k}T_{0}$, where k represents any

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non-zero integer, and where n represents the degree of the irreducible polynomial of the random sequence. Therefore, the claims are allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN G. HUGHES whose telephone number is (571)270-3365. The examiner can normally be reached on Monday through Friday from 9am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on 5712723759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lewis A Bullock, Jr./ Supervisory Patent Examiner, Art Unit 2193 /KEVIN G HUGHES/ Examiner, Art Unit 2193